

# GET UP, STAND UP

A Math. Science, Makers, & Humanities Project



## Overview:

Students will work in teams to design a campaign and parade float for a local non-profit and issues they care about to present at the Ocean Beach Holiday Parade. A design plan, prototype, revised float and final float will be created. Students will explore storytelling, community, relevant issues, scale, circuitry, engineering design and more!

## Essential Questions:

Math/Science: How can we use mathematical and scientific processes to design and build machines?

How can we use mathematical understanding to investigate mechanical movements?

Humanities: What does it mean to be a community and part of a community?

What are the ways we tell stories?

How can we bring awareness to the community issues we care about?

## Learning Goals:

Math/Science:

Humanities:

Students will be able to use proportional relationships to create scale drawings and blueprints.

Students will be able to use scientific processes to test and verify ideas.

Students will be able to apply their understanding of forces to build simple machines.

Students will have a basic understanding of how gears and simple mechanisms work.

Students will be able to write, edit, and publish a narrative story.

Students will be able to use research skills to study relevant times in history that will inform narrative story and float design.

Students will be able to create a persuasive campaign to bring awareness to issues they care about

Students will be able to explain the process of their float design in order to teach someone else to make it.

**EXHIBITION: THE OCEAN BEACH HOLIDAY PARADE!  
SATURDAY, DECEMBER 7TH (TIME TBD)**